## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. 17.02.2005 19.03.2004 PCT/EP2005/001772 International Patent Classification (IPC) or both national classification and IPC C22B21/06, C22B9/02 Applicant CORUS TECHNOLOGY BV This opinion contains indications relating to the following items: Basis of the opinion Box No. I ☐ Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability 🖾 Box No. III Lack of unity of invention LJ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial ☐ Box No. V applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Name and mailing address of the ISA: Authorized Officer European Patent Office Swiatek, R D-80298 Munich

Telephone No. +49 89 2399-7261

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

	Вох М	lo. I Basis of the opinion				
۳.	With r the lar	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
	la	his opinion has been established on the basis of a translation from the original language into the followin nguage , which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)).				
2.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type	e of material:				
		a sequence listing				
		table(s) related to the sequence listing				
	b. forn	nat of material:				
		in written format				
		in computer readable form				
	c. time	of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating therefolds been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.				
4,	Additio	nal comments:				

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
$\boxtimes$	the entire international application,				
	□ claims Nos.				
because:					
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
$\boxtimes$	the claims, or said claims Nos. 1-15 are so inadequately supported by the description that no meaningful opinion could be formed.				
	no international search report has been established for the whole application or for said claims Nos.				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
			does not comply with the standard		
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further details				

## 1. Art. 5 PCT

It is not possible to carry out the invention if only one foreign element is present within the metal to be purified. The reasons are the following:

In an alloy with a eutectic point, which consists of only two elements A (metal to be purified) and B (a foreign element), during cooling to a eutectic temperature either crystals rich in A or crystals rich in B precipitate. It is not possible to form simultaneously purified metal crystals A and crystals containing a foreign element B before reaching the eutectic point (see any binary phase diagram with a eutectic point).

Therefore, it is considered that the invention can be carried out only if two or more foreign elements are present together with a metal to be purified (see also the example with Al-Fe-Si system on page 11).

2. An amended claim 1 fulfilling the requirements of Art. 5 EPC would be considered new and inventive.